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217643

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AU <u>2611</u> Examiner # <u>76772</u>	Where have you searched?
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Serial # <u>091244037</u>	NPL _____ where - IEEE, ACM, internet, other
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5,600,672

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Day : Thursday

Date: 3/8/2007
Time: 09:43:09 PALM INTRANET

Continuity Information for 09/686467

Parent Data09686467is a division of 09244037Which is a reissue of 08240521Which is a continuation in part of 07857627**Child Data**09672946 is a division of 09244037[PALM Home](#) [Contents](#) [Patent Info](#) [Atty/Agent Info](#) [Continuity/Reexam](#) [Foreign Data](#)

Search Another: Application# or Patent#
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Day : Thursday

Date: 3/8/2007

Time: 09:43:36


PALM INTRANET
Application Number InformationApplication Number: **09/244037**Examiner Number: **76772 / HA, DAC****Assignments**Filing or 371(c) Date: **02/04/1999 eDan**Group Art Unit: **2611 IFW IMAGE**Effective Date: **02/04/1999**Class/Subclass: **375/219.000**Application Received: **02/04/1999**Lost Case: **NO**

Patent Number:

Interference Number:

Issue Date: **00/00/0000**Unmatched Petition: **NO**Date of Abandonment: **00/00/0000**L&R Code: Secrecy Code:**1**Attorney Docket Number: **169/MU-1296/**Third Level Review: **NO**Status: **90 /ALLOWED -- NOTICE OF ALLOWANCE NOT YET MAILED**Secrecy Order: **NO**Confirmation Number: **3295**Oral Hearing: **NO**Title of Invention: **COMMUNICATION SYSTEM**

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
09244037BA	28C1	09/12/2006	No Charge to Location	No Charge to Name	NGUYEN,HUY	RND/00/A 41

Appn
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Day : Thursday

Date: 3/8/2007
Time: 09:43:46**PALM INTRANET****Continuity Information for 09/244037****Parent Data**09244037is a reissue of 08240521Which is a continuation in part of 07857627**Child Data**

09662695 is a division of 09244037
09666012 is a division of 09244037
09667438 is a division of 09244037
09667525 is a division of 09244037
09668068 is a division of 09244037
09669916 is a division of 09244037
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09672947 is a continuation in part of 07857627
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09688028 is a division of 09244037
10133347 is a reissue of 08240521
10133364 is a division of 09662695
10635468 is a continuation of 09686463
10693526 is a division of 09680176
10782411 is a division of 09686465
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Day : Thursday

Date: 3/8/2007
Time: 09:43:58**PALM INTRANET****Application Number Information**

Application Number: 08/240521

Assignments

Filing or 371(c) Date: 05/10/1994 eDan

Effective Date: 05/10/1994

Application Received: 05/10/1994

Patent Number: 5600672

Issue Date: 02/04/1997

Date of Abandonment: 00/00/0000

Attorney Docket Number: 169MU1296P95

Status: 150 /PATENTED CASE

Confirmation Number: 8164

Examiner Number: 71232 / PHAN, HAI

Group Art Unit: 2614 IFW IMAGE

Class/Subclass: 375/219.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 01/27/1997

Oral Hearing: NO

Title of Invention: COMMUNICATION SYSTEM

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Query/Command : prt max legalall

1/1 PLUSPAT - ©QUESTEL-ORBIT - image

- PN - US5600672 A 19970204 [US5600672]
- TI - (A) Communication system
- PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)
- PA0 - Matsushita Electric Industrial Company, Ltd., Osaka [JP]
- IN - (A) OSHIMA MITSUAKI (JP); SAKASHITA SEIJI (JP)
- AP - US24052194 19940510 [1994US-0240521]
- FD - C.I.P. of US857627 19920325 [1992US-0857627]
- PR - US24052194 19940510 [1994US-0240521]
JP6279891 19910327 [1991JP-0062798]
JP9581391 19910425 [1991JP-0095813]
JP15565091 19910529 [1991JP-0155650]
JP18223691 19910723 [1991JP-0182236]
JP6073992 19920317 [1992JP-0060739]
JP13298493 19930510 [1993JP-0132984]
JP26161293 19930924 [1993JP-0261612]
JP34997293 19931227 [1993JP-0349972]
JP7966894 19940324 [1994JP-0079668]
US85762792 19920325 [1992US-0857627]
- IC - (A) H04B-001/38 H04L-005/16
- ICAA - G11B-020/00 [2006-01 A - I R M EP]; H04L-001/00 [2006-01 A - I R M EP];
H04L-027/02 [2006-01 A - I R M EP]; H04L-027/04 [2006-01 A - I R M EP];
H04L-027/18 [2006-01 A - I R M EP]; H04L-027/26 [2006-01 A - I R M EP];
H04L-027/34 [2006-01 A - I R M EP]; H04L-027/38 [2006-01 A - I R M EP];
H04N-005/44 [2006-01 A - I R M EP]; H04N-007/24 [2006-01 A - I R M EP];
H04N-007/26 [2006-01 A - I R M EP]; H04N-007/54 [2006-01 A - I R M EP]
G11B-023/28 [2006-01 A - N R M EP]; G11B-027/034 [2006-01 A - N R M
EP]; G11B-027/10 [2006-01 A - N R M EP]; H04N-007/015 [2006-01 A - N R
M EP]
- ICCA - G11B-020/00 [2006 C - I R M EP]; H04L-001/00 [2006 C - I R M EP]; H04L-
027/02 [2006 C - I R M EP]; H04L-027/18 [2006 C - I R M EP]; H04L-027/26
[2006 C - I R M EP]; H04L-027/34 [2006 C - I R M EP]; H04L-027/38 [2006 C
- I R M EP]; H04N-005/44 [2006 C - I R M EP]; H04N-007/24 [2006 C - I R M
EP]; H04N-007/26 [2006 C - I R M EP]; H04N-007/52 [2006 C - I R M EP]
G11B-023/28 [2006 C - N R M EP]; G11B-027/031 [2006 C - N R M EP];
G11B-027/10 [2006 C - N R M EP]; H04N-007/015 [2006 C - N R M EP]
- EC - G11B-020/00P
H04L-001/00B
H04L-027/02
H04L-027/04
H04L-027/18M
H04L-027/26M1
H04L-027/26M1E
H04L-027/34
H04L-027/34M
H04L-027/38N2

H04N-005/44N
 H04N-007/24A
 H04N-007/24C14
 H04N-007/26E
 H04N-007/54

- ICO** - S11B-023/28
 S11B-027/034
 S11B-027/10A1
 T04L-001/00B7C1
- PCL** - ORIGINAL (O) : 375219000; CROSS-REFERENCE (X) : 375270000
 375301000 375321000
- DT** - Basic
- CT** - US5164963
 Shanmugam, "Digital and Analog Communication Systems" 1979, p. 272.
- STG** - (A) United States patent
- AB** - At the transmitter side, carrier waves are modulated according to an input signal for producing relevant signal points in a signal space diagram. The input signal is divided into, two, first and second, data streams. The signal points are divided into signal point groups to which data of the first data stream are assigned. Also, data of the second data stream are assigned to the signal points of each signal point group. A difference in the transmission error rate between first and second data streams is developed by shifting the signal points to other positions in the space diagram expressed at least in the polar coordinate system. At the receiver side, the first and/or second data streams can be reconstructed from a received signal. In TV broadcast service, a TV signal is divided by a transmitter into low and high frequency band components which are designated as first and second data streams respectively. Upon receiving the TV signal, a receiver can reproduce only the low frequency band component or both the low and high frequency band components, depending on its capability. Furthermore, a communication system based on an OFDM system is utilized for data transmission of a plurality of subchannels, wherein the subchannels are differentiated by changing the length of a guard time slot or a carrier wave interval of a symbol transmission time slot, or changing the transmission electric power of the carrier.

1/1 LGST - ©EPO

- PN** - US5600672 A 19970204 [US5600672]
- AP** - US24052194 19940510 [1994US-0240521]
- ACT** - 19961010 US/AS02-A
 ASSIGNMENT OF ASSIGNEE'S INTEREST
 OWNER: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, KAD;
 EFFECTIVE DATE: 19960910

19961010 US/AS02-A
 ASSIGNMENT OF ASSIGNEE'S INTEREST
 OWNER: OSHIMA, MITSUAKI; EFFECTIVE DATE: 19960910

19961010 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: SAKASHITA, SEIJI; EFFECTIVE DATE: 19960910

19990420 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 19990204

20001114 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000915

20001128 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001012

20001226 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001005

20010102 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001012

20010130 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001012

20010213 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000929

20010313 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000925

20010403 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000925

20010501 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000929

20010522 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001005

20010605 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001005

20020611 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20020429

20020702 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20020429

20021008 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000921

20040113 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031027

20040203 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031022

20040413 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031024

20040504 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20020209

20040928 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040223

20041109 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040220

20041214 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040707

20041214 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040701

20050301 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040604

20050308 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040805

20050510 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20030807

20050628 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20050119

UP - 2005-27

1/1 CRXX - ©CLAIMS/RRX

PN - 5,600,672 A 19970204 [US5600672]
PA - Matsushita Electric Industrial Co Ltd JP
ACT - 19990204 REISSUE REQUESTED
ISSUE DATE OF O.G.: 19990420
REISSUE REQUEST NUMBER: 09/244037
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000915 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20001114
REISSUE REQUEST NUMBER: 09/662695
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000919 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20001114
REISSUE REQUEST NUMBER: 09/666012
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000921 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20001114
REISSUE REQUEST NUMBER: 09/667438
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000921 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010102
REISSUE REQUEST NUMBER: 09/667525
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000921 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20021008
REISSUE REQUEST NUMBER: 09/667438
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000925 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010313
REISSUE REQUEST NUMBER: 09/668068
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000925 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010403
REISSUE REQUEST NUMBER: 09/669916
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000929 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010213
REISSUE REQUEST NUMBER: 09/672948
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000929 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010501
REISSUE REQUEST NUMBER: 09/672947
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

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EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

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EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

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REISSUE REQUEST NUMBER: 09/686466
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20010102
REISSUE REQUEST NUMBER: 09/686467
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

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REISSUE REQUEST NUMBER: 09/686465
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

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REISSUE REQUEST NUMBER: 10/133364
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ISSUE DATE OF O.G.: 20020702
REISSUE REQUEST NUMBER: 10/133347
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

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REISSUE REQUEST NUMBER: 10/635468
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20040203
REISSUE REQUEST NUMBER: 10/690297
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20031024 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20040413
REISSUE REQUEST NUMBER: 10/692469
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20031027 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20040113
REISSUE REQUEST NUMBER: 10/693526
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

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REISSUE REQUEST NUMBER: 10/782411
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2631

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20040928
REISSUE REQUEST NUMBER: 10/783588
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2631

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20050301
REISSUE REQUEST NUMBER: 10/860666
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20041214
REISSUE REQUEST NUMBER: 2614
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS:

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20041214
REISSUE REQUEST NUMBER: 10/885572
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20050308
REISSUE REQUEST NUMBER: 10/911680
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20050119 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20050628

REISSUE REQUEST NUMBER: 11/038006
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

Search statement 3

February 4, 1997

Communication system

REISSUE: September 21, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/667,438 (O.G. October 8, 2002)
April 29, 2002 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 10/133,347 (O.G. July 2, 2002)
April 29, 2002 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 10/133,364 (O.G. June 11, 2002)
October 5, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/680,177 (O.G. June 5, 2001)
October 5, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/680,176 (O.G. May 22, 2001)
September 29, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/672,947 (O.G. May 1, 2001)
September 25, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/669,916 (O.G. April 3, 2001)
September 25, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/668,068 (O.G. March 13, 2001)
September 29, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/672,948 (O.G. February 13, 2001)
October 12, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/686,465 (O.G. January 30, 2001)
October 12, 2000 - Reissue Application Filed Ex. Gp.: 2614; Re. S.N. 09/686,467 (O.G. January 2, 2001)
October 12, 2000 - Reissue Application Filed Ex. Gp.: 2614; Re. S.N. 09/686,466 (O.G. January 2, 2001)
October 12, 2000 - Reissue Application Filed Ex. Gp.: 2614; Re. S.N. 09/686,463 (O.G. January 2, 2001)
September 21, 2000 - Reissue Application Filed Ex. Gp.: 2614; Re. S.N. 09/667,525 (O.G. January 2, 2001)
October 5, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/677,420

5,600,672 OR 5600672

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Patent Search 5600672 3/8/2007

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A combination of the TDM with the SRQAM of the present invention has been described in the above. However, the SRQAM of the present invention can be combined also with any of the FDM, CDMA and frequency dispersal communications systems.

What is claimed is:

1. A signal transmission and reception apparatus for transmitting and receiving an n-level VSB signal, the apparatus comprising a transmitter and a receiver;

said transmitter comprising:

a compression means for compressing an input video signal to a digital video compression signal;
an error correction encoding means for adding an error correction code to the digital video compression signal to produce an error correction coded signal;
a modulation means for modulating the error correction coded signal to an n-level VSB modulation signal, said modulation means comprising a means for allocating code points along a uniaxial modulation coordinate system, and a filter means having a plurality of coefficients which are a series of impulse responses defined by plotting timebase responses to the VSB modulation signal along the in-phase axis and its orthogonal axis for filtering a series of said code points allocated along the uniaxial modulation coordinate system; and

a transmission means for transmitting the modulation signal, and

said receiver comprising:

a means for receiving a transmitted n-level VSB modulation signal;
a demodulation means for demodulating the received n-level VSB modulation signal into a digital reception signal;
an error correction means for error correcting the digital reception signal to obtain an error-corrected digital signal; and
an expanding means for expanding the error-corrected digital signal to obtain a video output signal.

2. A transmission and reception apparatus according to claim 1, wherein the error correction means comprises a trellis decoder.

3. A transmission and reception apparatus according to claim 2, wherein the trellis decoder is associated with a plurality of memories which each holds a number of selectable correct codes.

4. A transmission and reception apparatus according to claim 1, wherein the digital reception signal is divided into a high priority signal and a low priority signal, and wherein said error correction means comprises a high code gain first error correction means and a low code gain second error correction means, said first error correction means correcting the high priority signal.

5. A transmission and reception apparatus according to claim 4, wherein the high priority signal carries the address data for all data.

6. A transmission and reception apparatus according to claim 4, wherein the first error correction means comprises a trellis decoder.

7. A signal transmission and reception apparatus according to claim 1, further comprising a band path filtering means for filtering the n-level VSB modulation signal before being transmitted.

8. A signal transmission and reception apparatus for transmitting an n-level VSB signal, comprising:

a compression means for compressing an input video signal into a digital video compression signal;
an error correction encoding means for adding an error correction code to the digital video compression signal to produce an error correction coded signal;

a modulation means for modulating the error correction coded signal to an n-level VSB modulation signal, said modulation means comprising a means for allocating code points along a uniaxial modulation coordinate system, and a filter means having a plurality of coefficients which are a series of impulse responses defined by plotting timebase responses to the VSB modulation signal along the in-phase axis and its orthogonal axis for filtering a series of said code points allocated along the uniaxial modulation coordinate system; and

a transmission means for transmitting the modulation signal.

9. A signal transmission apparatus according to claim 8, further comprising a band path filtering means for filtering the n-level VSB modulation signal before being transmitted.

10. A signal receiving apparatus comprising:

a tuner for receiving a transmission signal containing a digital modulation signal and an analog modulation signal and for selecting the digital modulation signal using a local oscillation signal;

an interference detecting means for detecting interference caused by the analog modulation signal from the digital modulation signal selected by the tuner;

a notch filter means responsive to the interference detected by the interference detecting means for removing a carrier of the analog modulation signal in a same frequency band as a frequency band of the digital modulation signal;

an error ratio calculating means for calculating a bit error ratio of an output of the notch filter means; and

an automatic frequency correcting means for changing a frequency of the local oscillation signal of the tuner according to a level of the interference detected by the interference detecting means and the bit error ratio calculated by the error ratio calculating means to compensate for a frequency offset of the carrier of the analog modulated signal.

11. A signal receiving apparatus according to claim 10, wherein the digital modulation signal is an n-level VSB modulation signal.

12. A signal receiving apparatus comprising:

a tuner for receiving a transmission signal containing at least one of a VSB modulated signal and a QAM modulated signal and for selecting one of the VSB modulated signal and the QAM modulated signal to obtain a selected signal;

an analog-to-digital converter for converting the selected signal into a series of digital codes;

a transversal filter provided on an orthogonal axis for suppressing a transmission distortion of the series of digital codes with respect to both orthogonal axes to obtain a series of filtered digital codes allocated on the orthogonal axes;

a carrier recovery means for phase-compensating a carrier of the filtered digital codes allocated on the orthogonal axis outputted from the transversal filter; and

a control means for producing a control signal to extract detected codes at equal time intervals from the VSB modulated signal;

a clock reproducing means for phase synchronizing entire codes of the QAM modulated signal when the selected signal is the QAM modulated signal and for phase synchronizing codes of the VSB modulated signal intermittently at predetermined intervals when the selected signal is the VSB modulated signal; and

a decoding means for decoding an output of the carrier recovery means.]

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